Special Problem 4.10-8

The circuit below is a simple digital inverter.

For this inverter, 0.0 V is the ideal “low” logic state, and 5.0 V is the ideal “high” logic state.

Determine approximately (using any valid simplifying approximation) the value of $V_{OH}$ for this inverter.

**Hint:** $V_{OH}$ is not equal to 5.0 V, although it almost is!